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(57) **ABSTRACT**

An electronic device may contain an input-output device such as a speaker, vibrator, or near field communications antenna. The input-output device may include an inductor. The inductor in the input-output device may be shared by wireless charging circuitry in the electronic device so that wireless charging signals can be converted into power to charge a battery in the electronic device. A separate inductor may also be provided within an input-output device to support wireless charging. A drive circuit may supply drive signals to the input-output device such as audio signals, vibrator control signals, or near field communications output signals for external near field communications equipment. An input amplifier that is coupled across the inductor in the input-output device may be used in receiving near field communications signals.

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